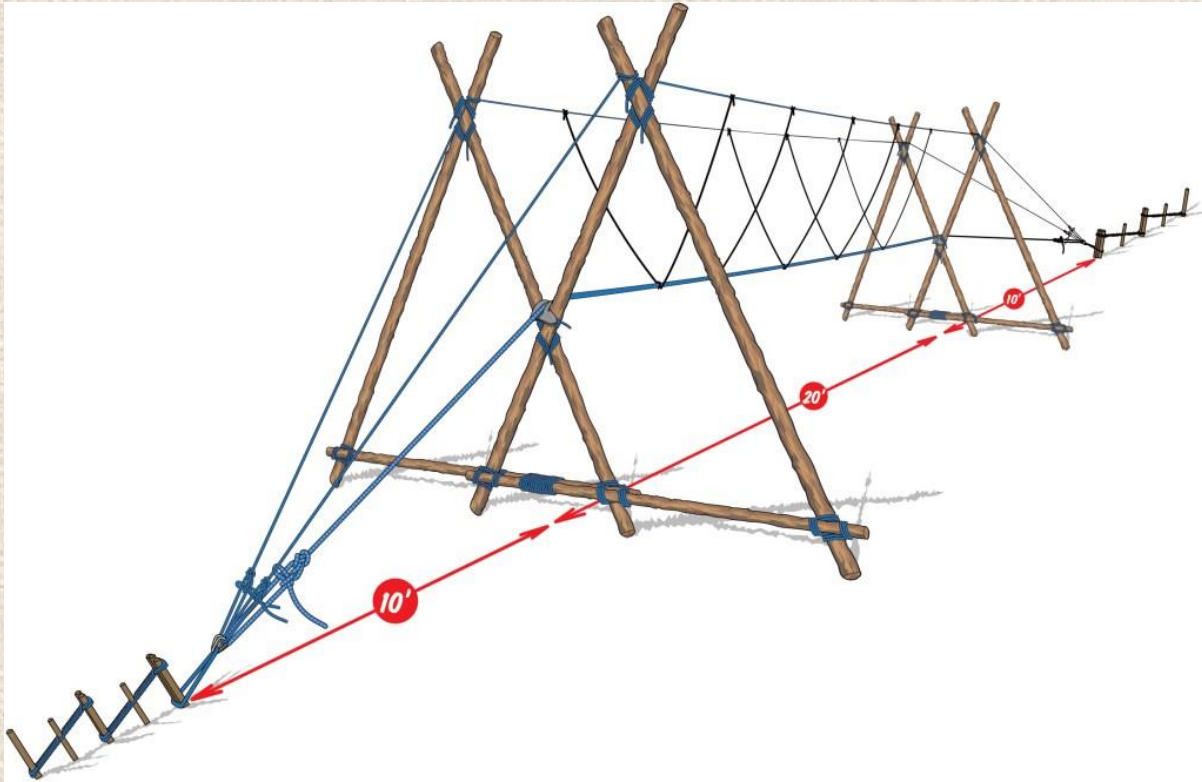


# pioneering project 9



## MONKEY BRIDGE MKII



### Materials

- Eight 2.5 metre A-frame legs
- Four 2 metre ledgers
- 14 6 metre lashing ropes for square lashings
- Six steel rings or locking carabiners to join grommet and rope tackle
- Two 1/2-inch-by-10-foot polypropylene ropes for rope grommets
- Binder twine to create loops for tourniquets
- Six 10-foot lashing ropes for round lashings
- Two 1/2-inch-by-50-foot hand ropes
- One 1/2-inch- or 3/4-inch-by-50-foot foot rope
- Five to seven 8-foot lashing ropes for stringers
- 12 24- to 30-inch-by-2 1/2-inch pioneering stakes for two 3-2-1 anchors
- Two pieces of scrap burlap for saddles



## Method:

1. Begin by building four identical A-frames with the 8-foot and 6-foot spars. Make sure the A-frames are all uniform in size when lashed together. Lash them together with three tight square lashings. You could also use shear lashings at the top of the A-frames.
2. Once you have four identical A-frames, it's time to make two pairs of double A-frames. Stand up two A-frames so they overlap each other one-half their length (about 3 feet). Join the legs together where they intersect with a tight square lashing. Finally, lash the two 6-foot bottom ledgers together where they overlap with three tight round lashings. Do the same for the other double A-frame.
1. Drive the pioneering stakes into the ground first with three stakes together, then two, and then one. Use loops of binder twine and a small stick in between each set to form a tourniquet. Both 3-2-1 anchors should be installed about 10 feet from where the A-frames will be erected. Place a rope grommet around the front stakes, before applying the tourniquet joining the three front stakes to the middle two.
2. Position the double A-frames no more than 20 feet apart from each other. Lay the foot and hand ropes alongside the A-frames. Attach the stringer ropes to a hand rope with a clove hitch at 3- to 4-foot intervals along the hand rope. Make roundturns around the foot rope and tie the running ends of the stringer ropes to the other hand rope with a clove hitch.
3. Make two saddles by folding pieces of burlap, placing one above the square lashings in the middle of the double A-frames where they intersect. This is where the foot rope will rest.
4. With the double A-frames held in place on each side, place the foot rope over the saddles, and tie the hand ropes to the top of the A-frames with clove hitches on a bight.
5. About halfway between the anchor and the A-frames, tie a butterfly knot in the foot rope to form a fixed loop for a rope tackle (trucker's hitch). With Scouts still holding the double A-frames in position, use the rope tackles to put strain on the foot rope. Next, pull the hand ropes tight and attach them to the anchors using rope tackle or roundturns with two half-hitches.
6. Once all the ropes are tightened, check the knots and lashings before crossing the bridge. Allow only one person on the bridge at a time.

